

Abstract

There is disclosed an automated system and process for providing a fully automated process for the design, manufacture and analysis of data for biological array ("biochip") devices.

Specifically, there is further disclosed a process and system for obtaining customer orders for

5 custom-designed biochips comprising obtaining desired target sequences from the customer,

wherein the target sequences consist essentially of oligonucleotide sequences, polypeptide

sequences, or antigens to be bound; creating a sequence content motif for an array, wherein the

sequence content motif consists essentially of oligonucleotide sequences, polypeptide sequences,

or binding agents designed for complimentary binding; and applying the content motif to a surface

10 suitable for later detection.